CONSUMER CONFIDENCE REPORT

Report Covers Calendar Year: January 1 – December 31, _2017

Este informe contiene informaction muy importante sobre el aqua usted bebe. Tradúscalo ó hable con alguien que lo entienda bien,

I. Public Water System (PWS) Information

PWS Name:	Town of Pa	stagonia				
PWS ID#	AZ04-12-0	06				
Owner / Opera	ator Name:	Town of Pa	atagonia	Operator: Ral	ph Smith	
Telephone #	394-2229		Fax#	394-2034	E-mail	pwtreat@patagoniaoffice.net
We want our valued regularly scheduled meetings dates and	l meetings, please			quality. If you would	l like to learn more abou at <u>520-459-7040</u>	nt public participation or to attend any of our for additional opportunity and

II. Drinking Water Sources

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pickup substances resulting from the presence of animals or from human activity.

Our water source(s).

2 wells located at second st. and doubletree lane #55-605595 and 55-605596

III. Consecutive Connection Sources

A public water system that receives some or all of its finished water from one or more wholesale systems by means of a direct connection or through the distribution system of one or more consecutive systems. Systems that purchase water from another system report regulated contaminants detected from the PWS ID # AZ04 - 12-006 provides a consecutive connection source of water. source water supply in a separate table.

IV, Drinking Water Contaminants

Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife, Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides that may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban stormwater runoff, and septic systems.

Radioactive contaminants, that can be naturally occurring or be the result of oil and gas production and mining activities.

V. Vulnerable Population

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at 1-800-426-4791.

Source Water Assessment

If the public water system received a Source Water Assessment (SWA), include a brief summary of the susceptibility as summarized in the SWA report. Further source water assessment documentation can be obtained by contacting ADEQ, 602-771-4641.

VII. Definitions

AL = Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements,

MCL = Maximum Contaminant Level - The "Maximum Allowed" is the highest level of a contaminant that is allowed in drinking water.

MCLG = Maximum Contaminant Level Goal - The "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to

MFL = Million fibers per liter.

MRDL = Maximum Residual Disinfectant Level.

MRDLG = Maximum Residual Disinfectant Level Goal.

MREM = Millirems per year - a measure of radiation absorbed by the body.

NA = Not Applicable, sampling was not completed by regulation or was not required.

NTU = Nephelometric Turbidity Units, a measure of water clarity.

PCi/L = Picocuries per liter - picocuries per liter is a measure of the radioactivity in water.

PPM = Parts per million or Milligrams per liter (mg/L).

dqq = 0001 x triqq PPB = Parts per billion or Micrograms per liter (µg/L). $ppb \times 1000 = ppt$

PPT = Parts per trillion or Nanograms per liter.

PPO = Parts per quadrillion or Picograms per liter.

 $pp1 \times 1000 = ppq$

TT = Treatment Technique - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

VIII. Health Effects Language

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods-of-time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that fead levels at your home may he higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your

Revised May 25, 2010 I of 6 home's water, you may wish to have your water tested. Flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the EPA Safe Drinking Water Hotline at 1-800-426-4791.

IX. Water Quality Data	····				·		
Contaminant (units)	Violation Y/N	Highest Level Detected	Range Detected Absent (A) or Present (P)	MCL	MCLG	Sample Month Year	Likely Source of Contaminatio
Microbiological	· · · · · · · · · · · · · · · · · · ·					, "	
Total Coliform Bacteria (System takes ≥ 12 monthly samples) 5% of monthly samples are positive; (System takes ≤ 12 monthly samples) 1 positive monthly sample	none	0		0	0	12 for 2017 1 per month	Naturally Present in Environment
Fecal coliform and E. Coli (TC Rule)		0		0	0	7-17	Homan and animal fecal waste
Fecal Indicators (E. coli, enterocacci or coliphage) (GW Rule)		0		TT	n/a		Human and animal fecal waste
Total Organic Carbon (ppm)				TT	п/а		Naturally present in the environment
Turbidity (NTU), surface water only			<u> </u>	TT	n/a		Soil Runoff
Disinfectants	T		1	1	1	1	Water additive used to
Chloramines (ppm)			<u> </u>	MRDL = 4	MRDLG = 4		control microbes Water additive used to
Chlorine (ppm)	n	.18 average		MRDL. = 4	MRDLG = 4	monthly	central microbes
Chloride dioxide (ppb)				MRDL = 800	MRDLG = 800		Water additive used to control microbes
Disinfection By-Products			1	1.00	1 ,	T	Byproduct of drinking
Haloacetic Acids (ppb) (HAA5)	n	<.2		60	n/a	7-17	water disinfection Byproduct of drinking
Total Tribalomethanes (ppb) (TTHM)	n	2.6		80	n/a	7-17	water disinfection
Bromate (pph)				10	0		Byproduct of drinking water disinfection
Chlorite (ppm)				1	0.8		Byproduct of drinking water disinfection
Lead & Copper	7	 	•	1	1	· · · · · · · · · · · · · · · · · · ·	Cai
Copper (ppm)	n	=,745 ppm		AL, = 1.3	ALG = 1.3	7-16	Corrosion of household plumbing systems; crosion of natural deposits
Lead (ppb)	n	~7.6 ppb	-	AL = 15	0	7-16	WCorrosion of household plumbing systems; crosion of natural deposits
Radionuclides	1	,		è			
Betn / photon emitters (mrem/yr)				4	0		Decay of natural and man-made deposits
Alpha emitters (pCi/L)	n			15	0		Erosion of natural deposits
Combined Radium 226 & 228 (pCi/L)	n			5	0		Erosion of natural deposits
Uranium (pCi/L)				30	0	not required to test this year	Erosion of natural deposits
Inorganics	η	1	+	1		<u> </u>	1 Discharge Co.
Antimony (ppb)	n			6	6		Discharge from petroleum refineries; fire retardants; ceramics, electronies and solder
Arsenic (ppb)	n	2		10	0	8-16	Erosion of untural deposits, runoff from orchards, runoff from glass and electronics production wastes
Asbestos (MFL)	n			7	7		Decay of asbestos coment water mains, Eroston of natural deposits
Barium (ppin)	n	.029		2	2	8-16	Discharge of drilling wastes; discharge fror motal refineries; Erosion of natural deposits
Beryllium (ppb)	n			4	4		Discharge from metal refineries and coal- burning factories; discharge from electrical, aerospace,
Cadmium (ppb)	n	<.5		5	5	8-16	and defense industries Corrosion of
0 : 314 07 2010			<u></u>				galvanized pipes;

Contaminant (units)	Violation Y/N	Highest Level Detected	Range Detected Absent (A) or Present (P)	MCL	MCLG	Sample Month Year	Likely Source of Contaminatio
							natural deposits; metal refineries; runoff from waste batteries and paints
Chromium (ppb)	n	<1		100	100	8-16	Discharge from steel and pulp mills; Erosion of uniural deposits
Cyanide (ppb)	מ	<.5		200	200	8-16	Discharge from steel/metal factories: Discharge from plastic and fertilizer factories
Fluoride (ppm)	n	.45		4	4	8-16	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertifizer and altuminum factories
Mercury (pph)	n	<.2		2	2	8-16	Eresion of natural deposits; Discharge from refineries and factories; Renoff from landfills and cropland.
Nitrate (ppm)	n	1.0		10	10	5-2-17	Runoff from fertilizer use; lenching from septic tanks, sewage; erosion of natural deposits
Nitrite (ppm)	n				1	Not required this year	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	n	<5		50	50	8-16	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	n	<1		2	0.5	8-16	
2.4-D (ppb)	N			70	70	Not required this year	
2,4,5-TP (Silvex) (ppb)	N			50	50	Not required this year	
Acrylamide	N			TT	0	Not required this year	
Alachlor (ppb)	N	Nd<.1		2	0	8-16	Not required this year
Atrazine (ppb)	N			3	3	Not required this year	Runoff from herbicide used on row crops
Benzo (a) pyrene (PAH) (ppt)	N			200	0	Not required this year	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	N			40	40	Not required this year	nt used on rice and alfalfa
Chlordane (ppb)	N	Nd<.1		2	0	8-16	Residue of banned termiticide
Dalapon (pph)	N			200	200	Not required this year	Runoff from herbicide used on rights of way
Di (2-ethylhexyl) adipate (ppb)	N			400	400	Not required this year	Discharge from chemical factories
Di (2-ethylhexyl) phthatate (ppb)	N			6	0	Not required this year	Discharge from rubber and chemical factories

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Contaminant (units)	Violation Y/N	Highest Level Detected	Range Detected Absent (A) or Present (P)	MCL	MCLG	Sample Month Year	Likely Source of Contaminatio
Dibromochloropropane (ppt)	N	<10		200	0	8-16	Runoff/leaching from soil furnigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (pph)	N			7	7	Not required this year	Runoff from herbicide used on soybeans and vegetables
Diquat (ppb)	И			20	20	Not required this year	Runoff from herbicide use
Dioxin [2,3,7.8-TCDD] (ppq)	N			30	0	Not. required this year	Emissions from waste incineration and other combustion; discharge from chemical factories
Endothali (ppb)	N			100	100	Not required this year	Runoff from herbicide use
Endrin (ppb)	N	<.01		2	2	8-16	Residue of hanned insecticide
Epichlorohydrin	N			TT	0	Not required this year	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylene dibromide (ppt)	N	<10		50	0	8-16	Discharge from petroleum refineries
Glyphosate (ppb)	N			700	700	Not required this year	Runoff from herbicide use
Heptachlor (pp1)	N	<10		400	0	8-16	Residue of banned terniticide
Heptachlor epoxide (ppt)	N	<10		200	0	8-16	Breakdown of heptachlor
Hexachlorobenzene (ppb)	N			1	0	Not required this year	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclo pentadione (ppb)	И			50	50	Not required this year	Discharge from chemical factories
Lindane (ppt)	И	<10		200	200	8-16	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	N	<.05		40	40	8-16	Runoff/leaching from insecticide used on fruits. vegetables, alfalfa, livestock
Oxamyl [Vydate] (ppb)	N		i de la constanta de la consta	200	200	Not required this year	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls] (ppt)	N			500	0	Not required this year	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol (pph)	N			I	0	Not required this year	Discharge from wood preserving factories
Picloram (ppb)	N			500	500	Not required this year	Herbicide runolY
Simazine (ppb)	N			4	4	Not required	Herbicide runoff

Contaminant (units)	Violation Y/N	Highest Level Detected	Range Detected Absent (A) or Present (P)	MCL	MCLG	Sample Month Year	Likely Source of Contaminatio
-						this year	
Toxaphene (ppb)	រា	<.5		3	0	8-16	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organics	T .	I		1			Discharge from
Benzene (ppb)	N	ND <.5		5	5	8-16	factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	N	ND <.5		5	5	8-16	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	N	ND <.5		100	100	8-16	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	N	ND <.5		600	600	8-16	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	N	ND <.5		75	75	8-16	Discharge from industrial chemical factories
1,2-Dichloroethane (ppb)	N	ND<.5		5	5	8-16	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	N	ND <.5		7	7	8-16	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	N	ND <.5		70	70	8-16	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	N	ND <.5		100	100	8-16	Discharge from industrial chemical factories
Dichloromethane (ppb)	N	ND<.5		5	5	8-16	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (µpb)	N	ND <.5		5	5	8-16	Discharge from industrial chemical factories
Ethylbenzene (ppb)	N	ND <.5		700	700	8-16	Discharge from petroleum refineries
Styrene (ppb)	N	ND <.5		100	100	8-16	Discharge from rubber and plastic factories; leaching from landfills
Tetrachlorocthylene (ppb)	N	ND <.5		5	5	8-16	Discharge from factories and dry cleaners
1,2,4-Trichlorobenzene (ppb)	N	ND<.5		70	70	8-16	Discharge from textile-finishing factories
1,1,1-Trichtoroethane (ppb)	N	ND <.5		200	200	8-16	Discharge from metal degreasing sites and other factories
1.1.2-Trichloroethane (ppb)	N	ND <.5		5	5	8-16	Discharge from industrial chemical factories
Trichloroethylene (ppb)	N	ND <.5		5	5	8-16	Discharge from metal degreasing sites and other factories
Toluene (ppm)	N	ND <.0005		1	1	8-16	Discharge from petroleum factories
Vinyl Chloride (ppb)	N	ND <.3		2	2	8-16	Leaching from PVC piping; discharge from chemical

Contaminant (units)	Violation Y/N	Highest Level Detected	Range Detected Absent (A) or Present (P)	MCL	MCLG	Sample Month Year	Likely Source of Contaminatio
	<u> </u>			<u> </u>			factories
Xylenes (ppm)	N	ND <.0005		10	10	8-16	Discharge from petroleum or chemical factories

X. Cryptosporidium Monitoring (surface water systems only) Our water is ground water only

We detected Cryptosporidium in the finished water or source water. We detected Cryptosporidium in of our samples tested.							
We have to provide additional treatment if Cryptosporidium is found at greater than 0.075 oocyst per liter.							
We believe it is important for you to know that <i>Cryptosporidium</i> may cause serious illness in immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders. These people should seek advice form their health care providers.							

XI. Stage 2 Disinfectants and Disinfection By-products Rule

Stage 2 DBP Rule requires some systems to complete an initial Distribution System Evaluation (IDSE) to characterize DBP levels in their distribution systems and identify locations to monitor DBPs for Stage 2 DBP Rule compliance. The following table summarizes the individual sample results for the IDSE monitoring in 2009:

Contaminant	Number of Minimum Level Analyses Detected		Highest Level Detected	
Haloacetic Acids (HAA5) (ppb)	1	<2 ppb	<2 ppb	
Total Trihalomethanes (TTHM) (ppb)	1	2.6 ppb	2.6 ppb	

XII. Violations

Type / Description	Compliance Period	Corrective Actions taken by PWS
None	1-1-17 thru 12-31-17	None necessary

An explanation of the violation(s) in the above table, the steps taken to resolve the violation(s) and any required health effects information are required to be included with this report. (Attach copy of Public Notice if available.)

Source Water Assessment

• : Based on the information currently available on the hydrogeologic settings of and the adjacent land uses that are in the specified proximity of the drinking water source(s) of this public water system, the department has given a low risk designation for the degree to which this public water system drinking water source(s) are protected. A low risk designation indicates that most source water protection measures are either already implemented, or the hydrogeology is such that the source water protection measures will have little impact on protection.

Further source water assessment documentation can be obtained by contacting ADEQ.

Lead Informational Statement:

Lead, in drinking water, is primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Town of Patagonia is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

Water Quality Data - Regulated Contaminants

Lead & Copper	MCL Violation Y or N	90 th Percentile	Number of Samples Exceeds AL	AL	ALG	Sample Month & Year	Likely Source of Contamination
Copper (ppm)	N	.53	0	1.3	1.3	July 2016	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	N	3	0	15	0	July 2016	Corrosion of household plumbing systems; erosion of natural deposits
Radionuclides	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Alpha Emitters (pCi/L)	N	5.9	5.9	15	0	August 2016	Erosion of natural deposits

Violation Summary (for MCL, MRDL, AL, TT, or Monitoring & Reporting Requirement)

Violation Type	Explanation, Health Effects	Time Period	Corrective Actions
Reporting Failure	Submitted 2016 CCR after deadline	17 days	Sent in CCR to ADEQ ON July 18, 2017